

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/547,206

Source: PG 110

Date Processed by STIC: 9/7/05

# ***ENTERED***

**Raw Sequence Listing before editing  
(for reference only)**



PCT

## RAW SEQUENCE LISTING

DATE: 09/07/2005

PATENT APPLICATION: US/10/547,206

TIME: 15:01:02

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09072005\J547206.raw

3 <110> APPLICANT: JACQUET, Alain  
 5 <120> TITLE OF INVENTION: HYPOALLERGENIC DER P1 AND DER P3 PROTEINS FROM  
 DERMATOPHAGOIDES

6 PTERONYSSINUS

8 &lt;130&gt; FILE REFERENCE: VB60107

C--> 10 ~~<140>~~ CURRENT APPLICATION NUMBER: US/10/547,206W--> 11 ~~24-02-2004~~ insert <1517

C--&gt; 13 &lt;141&gt; CURRENT FILING DATE: 2005-08-26

13 &lt;150&gt; PRIOR APPLICATION NUMBER: GB 0304424.5

W--> 14 ~~26-02-2003~~ insert <1517

16 &lt;160&gt; NUMBER OF SEQ ID NOS: 26

18 &lt;170&gt; SOFTWARE: FastSEQ for Windows Version 4.0

20 &lt;210&gt; SEQ ID NO: 1

21 &lt;211&gt; LENGTH: 909

22 &lt;212&gt; TYPE: DNA

23 &lt;213&gt; ORGANISM: Dermatophagoides pteronyssinus

25 &lt;220&gt; FEATURE:

26 &lt;221&gt; NAME/KEY: CDS

27 &lt;222&gt; LOCATION: (1)...(906)

29 &lt;400&gt; SEQUENCE: 1

30 cgg ccg agc tcc att aag acc ttc gag gaa tac aag aaa gcc ttc aac 48

31 Arg Pro Ser Ser Ile Lys Thr Phe Glu Glu Tyr Lys Lys Ala Phe Asn

32 1 5 10 15

34 aag agc tat gcc acc ttc gag gac gag gag gcc gcg cgc aag aac ttc 96

35 Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys Asn Phe

36 20 25 30

38 ctg gaa agc gtg aaa tac gtg cag agc aac ggc ggc gct ata aat cac 144

39 Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His

40 35 40 45

42 ctg tcc gac ctg tct tta gac gag ttc aag aac cgg ttc ctg atg agc 192

43 Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser

44 50 55 60

46 gcc gag gct ttc gaa cac ctt aag acc cag ttt gat ctc aac gcg gag 240

47 Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu

48 65 70 75 80

50 acc aac gcc tgc agt atc aac ggc aat gcc ccc gct gag att gat ctg 288

51 Thr Asn Ala Cys Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu

52 85 90 95

54 cgc cag atg agg acc gtg act ccc atc cgc atg caa ggc ggc tgc ggc 336

55 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly

56 100 105 110

58 tct tgt tgg gcc ttt tca ggc gtg gcc gcg aca gag tgc gca tac ctc 384

59 Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu

60 115 120 125

Does Not Comply  
 :orrected Diskette Neede

## RAW SEQUENCE LISTING

DATE: 09/07/2005

PATENT APPLICATION: US/10/547,206

TIME: 15:01:02

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09072005\J547206.raw

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62 gcg tat cgg aat cag agc ctg gac ctc gct gag cag gag ctc gtt gac 432
63 Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
64      130      135      140
66 tgc gcc tcc caa cac gga tgt cat ggg gat acg att ccc aga ggt atc 480
67 Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
68 145      150      155      160
70 gaa tac atc cag cat aat ggc gtc gtg cag gaa agc tat tac cga tac 528
71 Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
72      165      170      175
74 gta gct agg gag cag tcc tgc cgc cgt cct aac gca cag cgc ttc ggc 576
75 Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
76      180      185      190
78 att tcc aat tat tgc cag atc tac ccc cct aat gcc aac aag atc agg 624
79 Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Ala Asn Lys Ile Arg
80      195      200      205
82 gag gcc ctg gcg cag acg cac agc gcc atc gct gtc atc atc gga atc 672
83 Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
84      210      215      220
86 aag gat ctg gac gca ttc cgg cac tat gac ggg cgc aca atc atc cag 720
87 Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
88 225      230      235      240
90 cgc gac aac gga tat cag cca aac tac cac gcg gtc aac atc gtg ggt 768
91 Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
92      245      250      255
94 tac tcg aac gcc cag ggg gtg gac tac tgg atc gtg aga aac agt tgg 816
95 Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn Ser Trp
96      260      265      270
98 gac act aac tgg ggc gac aac ggc tac ggc tac ttc gcc gcc aac atc 864
99 Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala Asn Ile
100      275      280      285
102 gac ctg atg atg atc gag gag tac ccg tac gtg gtg atc ctg 906
103 Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
104      290      295      300
106 taa 909
108 <210> SEQ ID NO: 2
109 <211> LENGTH: 302
110 <212> TYPE: PRT
111 <213> ORGANISM: Dermatophagoides pteronyssinus
113 <400> SEQUENCE: 2
114 Arg Pro Ser Ser Ile Lys Thr Phe Glu Glu Tyr Lys Lys Ala Phe Asn
115 1      5      10      15
116 Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys Asn Phe
117      20      25      30
118 Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His
119      35      40      45
120 Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
121      50      55      60
122 Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
123 65      70      75      80

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## RAW SEQUENCE LISTING

DATE: 09/07/2005

PATENT APPLICATION: US/10/547,206

TIME: 15:01:02

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09072005\J547206.raw

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124 Thr Asn Ala Cys Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
125      85      90      95
126 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
127      100      105      110
128 Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
129      115      120      125
130 Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
131      130      135      140
132 Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
133 145      150      155      160
134 Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
135      165      170      175
136 Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
137      180      185      190
138 Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Val Asn Lys Ile Arg
139      195      200      205
140 Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
141      210      215      220
142 Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
143 225      230      235      240
144 Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
145      245      250      255
146 Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn Ser Trp
147      260      265      270
148 Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala Asn Ile
149      275      280      285
150 Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
151      290      295      300
154 <210> SEQ ID NO: 3
155 <211> LENGTH: 302
156 <212> TYPE: PRT
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: C4R mutant of ProDer p 1
162 <400> SEQUENCE: 3
163 Arg Pro Ser Ser Ile Lys Thr Phe Glu Glu Tyr Lys Lys Ala Phe Asn
164 1      5      10      15
165 Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys Asn Phe
166      20      25      30
167 Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His
168      35      40      45
169 Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
170      50      55      60
171 Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
172 65      70      75      80
173 Thr Asn Ala Arg Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
174      85      90      95
175 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
176      100      105      110

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Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09072005\J547206.raw

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177 Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
178      115      120      125
179 Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
180      130      135      140
181 Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
182 145      150      155      160
183 Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
184      165      170      175
185 Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
186      180      185      190
187 Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Val Asn Lys Ile Arg
188      195      200      205
189 Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
190      210      215      220
191 Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
192 225      230      235      240
193 Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
194      245      250      255
195 Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn Ser Trp
196      260      265      270
197 Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala Asn Ile
198      275      280      285
199 Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
200      290      295      300
203 <210> SEQ ID NO: 4
204 <211> LENGTH: 909
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <221> NAME/KEY: CDS
210 <222> LOCATION: (1)...(906)
212 <223> OTHER INFORMATION: C4R mutant of ProDer p 1
214 <400> SEQUENCE: 4
215 cgg ccg agc tcc att aag acc ttc gag gaa tac aag aaa gcc ttc aac 48
216 Arg Pro Ser Ser Ile Lys Thr Phe Glu Glu Tyr Lys Lys Ala Phe Asn
217 1      5      10      15
219 aag agc tat gcc acc ttc gag gac gag gag gcc gcg cgc aag aac ttc 96
220 Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys Asn Phe
221      20      25      30
223 ctg gaa agc gtg aaa tac gtg cag agc aac ggc ggg gct ata aat cac 144
224 Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His
225      35      40      45
227 ctg tcc gac ctg tct tta gac gag ttc aag aac cgg ttc ctg atg agc 192
228 Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
229      50      55      60
231 gcc gag gct ttc gaa cac ctt aag acc cag ttt gat ctc aac gcg gag 240
232 Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
233 65      70      75      80
235 acc aac gcc cgt agt atc aac ggc aat gcc ccc gct gag att gat ctg 288

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## RAW SEQUENCE LISTING

DATE: 09/07/2005

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TIME: 15:01:02

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09072005\J547206.raw

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236 Thr Asn Ala Arg Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
237      85      90      95
239 cgc cag atg agg acc gtg act ccc atc cgc atg caa ggc ggc tgc ggg 336
240 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
241      100      105      110
243 tct tgt tgg gcc ttt tca ggc gtg gcc gcg aca gag tcg gca tac ctc 384
244 Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
245      115      120      125
247 gcg tat cgg aat cag agc ctg gac ctc gct gag cag gag ctc gtt gac 432
248 Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
249      130      135      140
251 tgc gcc tcc caa cac gga tgt cat ggg gat acg att ccc aga ggt atc 480
252 Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
253 145      150      155      160
255 gaa tac atc cag cat aat ggc gtc gtg cag gaa agc tat tac cga tac 528
256 Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
257      165      170      175
259 gta gct agg gag cag tcc tgc cgc cgt cct aac gca cag cgc ttc ggc 576
260 Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
261      180      185      190
263 att tcc aat tat tgc cag atc tac ccc cct aat gcc aac aag atc agg 624
264 Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Ala Asn Lys Ile Arg
265      195      200      205
267 gag gcc ctg gcg cag acg cac agc gcc atc gct gtc atc atc gga atc 672
268 Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
269      210      215      220
271 aag gat ctg gac gca ttc cgg cac tat gac ggg cgc aca atc atc cag 720
272 Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
273 225      230      235      240
275 cgc gac aac gga tat cag cca aac tac cac gcg gtc aac atc gtg ggt 768
276 Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
277      245      250      255
279 tac tcg aac gcc cag ggg gtg gac tac tgg atc gtg aga aac agt tgg 816
280 Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn Ser Trp
281      260      265      270
283 gac act aac tgg ggc gac aac ggc tac ggc tac ttc gcc gcc aac atc 864
284 Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala Asn Ile
285      275      280      285
287 gac ctg atg atg atc gag gag tac ccg tac gtg gtg atc ctg 906
288 Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
289      290      295      300
291 taa 909
293 <210> SEQ ID NO: 5
294 <211> LENGTH: 302
295 <212> TYPE: PRT
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: C31R mutant of ProDer p 1
301 <400> SEQUENCE: 5

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10/547,206

6

These  
are  
prior  
data

SEQUENCE LISTING

<110> JACQUET, Alain

<120> HYPOALLERGENIC DER P1 AND DER P3 PROTEINS FROM DERMATOGRAPHOIDES  
PTERONYSSINUS

<130> VB60107

<150> <140> PCT/EP2004/001850  
<151> 24-02-2004 2004-02-24 ← use this format for dates

insert <151> GB 0304424.5  
26-02-2003 2003-02-26



**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/547,206

DATE: 09/07/2005

TIME: 15:01:03

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09072005\J547206.raw

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L:11 M:259 W: Allowed number of lines exceeded, <140> CURRENT APPLICATION NUMBER:  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:14 M:259 W: Allowed number of lines exceeded, <150> PRIOR APPLICATION NUMBER: